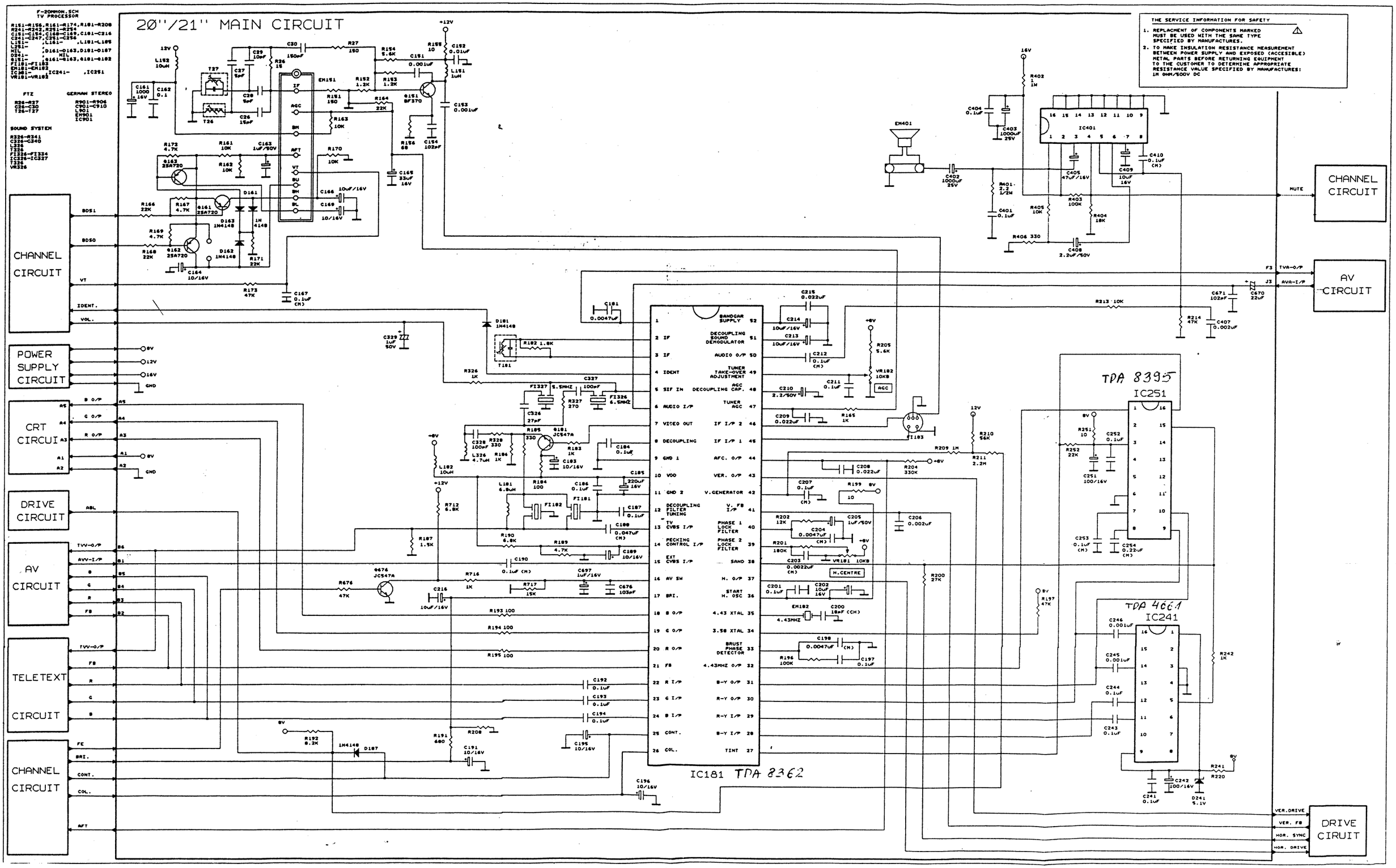
CROWN

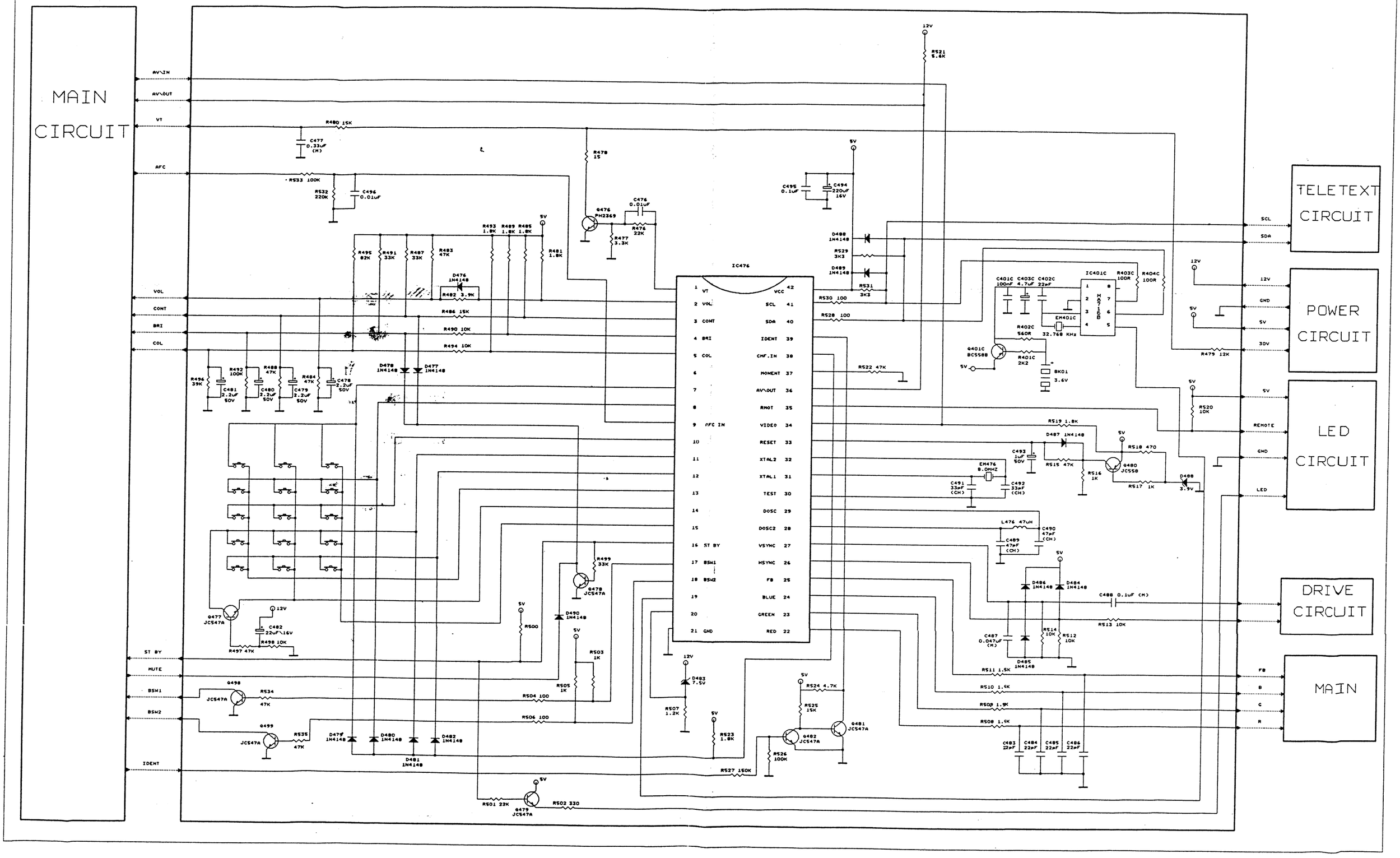
General Information

Covers Models:
Crown CRP 14/14T
Crown CRP 21/21T/21T (S)
Crown CRP 21 NT
Crown CRP 2196T

SM-1 MONO CHASSIS CIRCUIT DIAGRAM



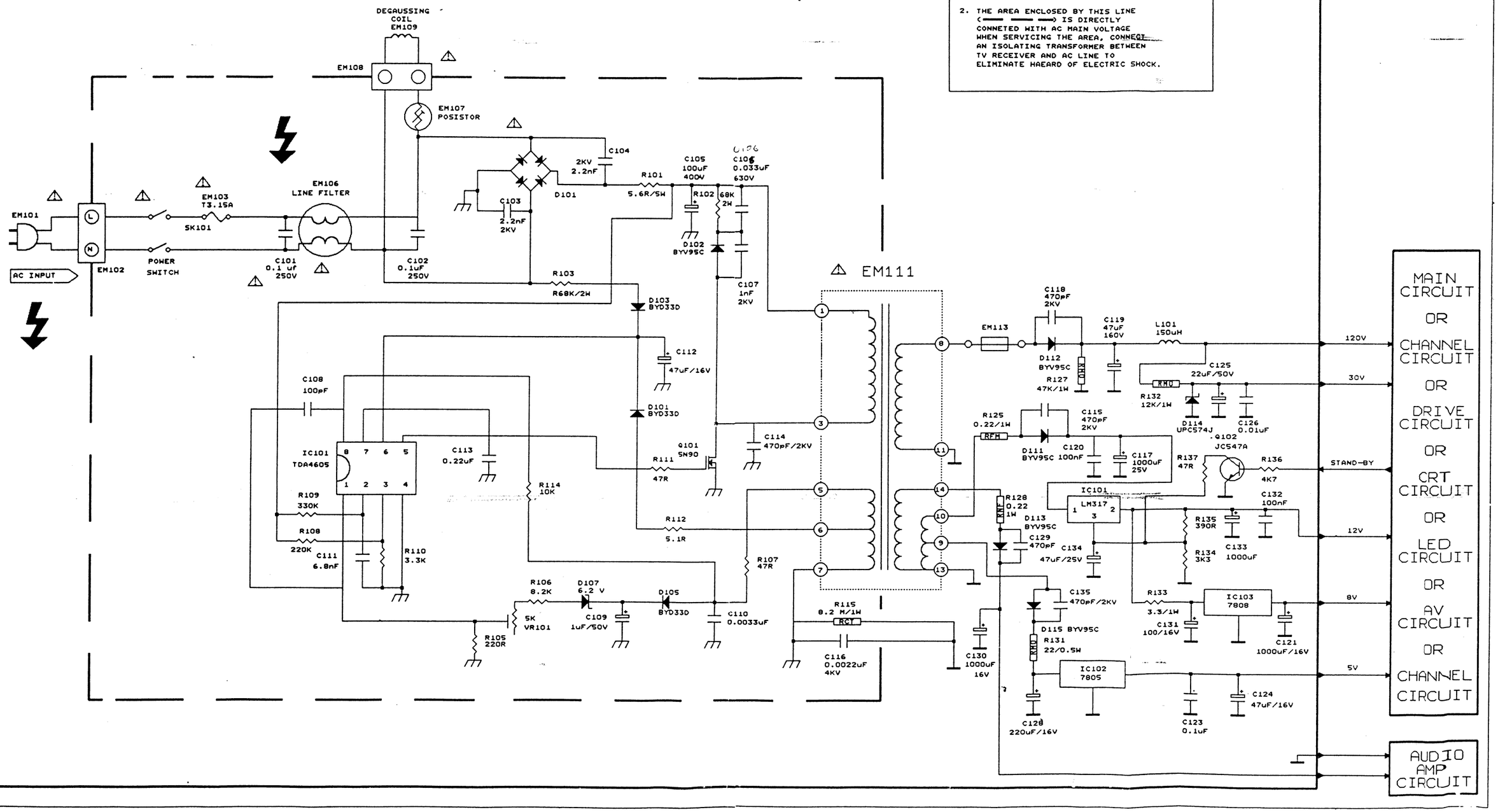
MAIN CIRCUIT



CHANNEL CIRCUIT

THE SERVICE INFORMATION FOR SAFETY

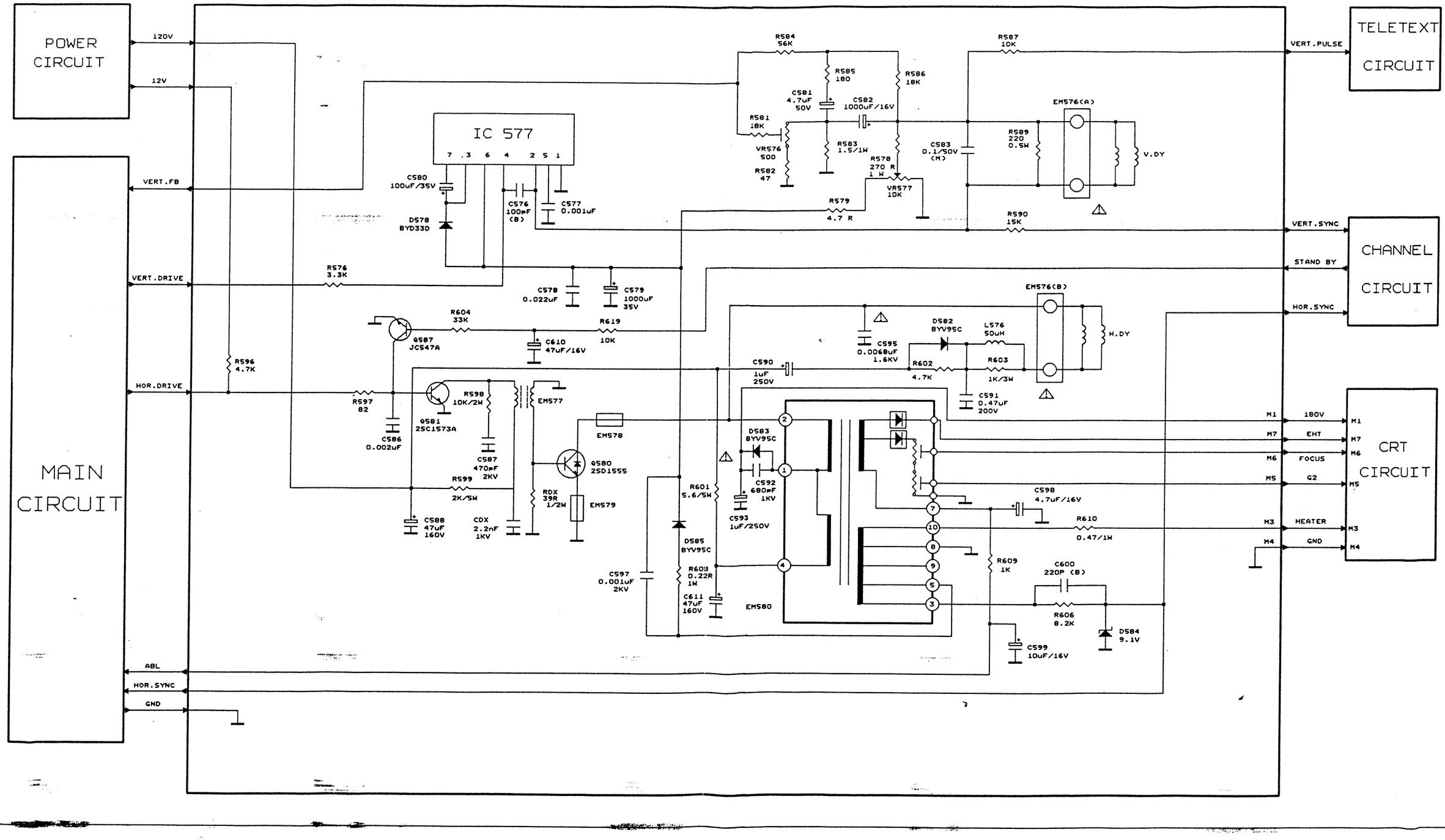
1. REPLACMENT OF COMPONENTS MARKED ⚠ MUST BE USED WITH THE SAME TYPE SPECIFIED BY MANUFACTURES.
2. THE AREA ENCLOSED BY THIS LINE (—— —— ——) IS DIRECTLY CONNETED WITH AC MAIN VOLTAGE WHEN SERVICING THE AREA, CONNECT AN ISOLATING TRANSFORMER BETWEEN TV RECEIVER AND AC LINE TO ELIMINATE HAEARD OF ELECTRIC SHOCK.



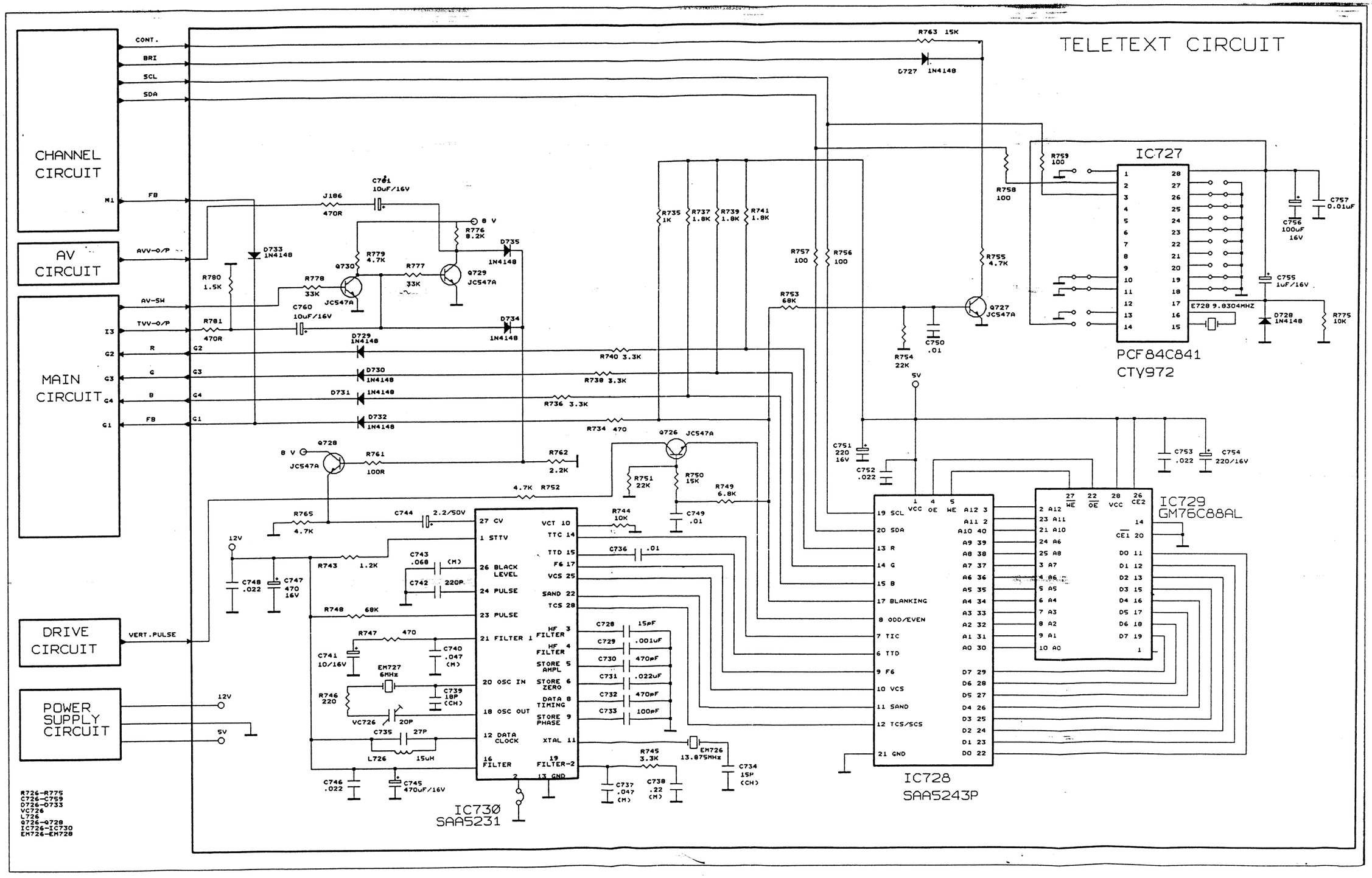
POWER CIRCUIT

R576-R619
C576-C610
D576-D583
EM576-EM580
VR576-VR578
Q576-Q581
IC576
L576-L577

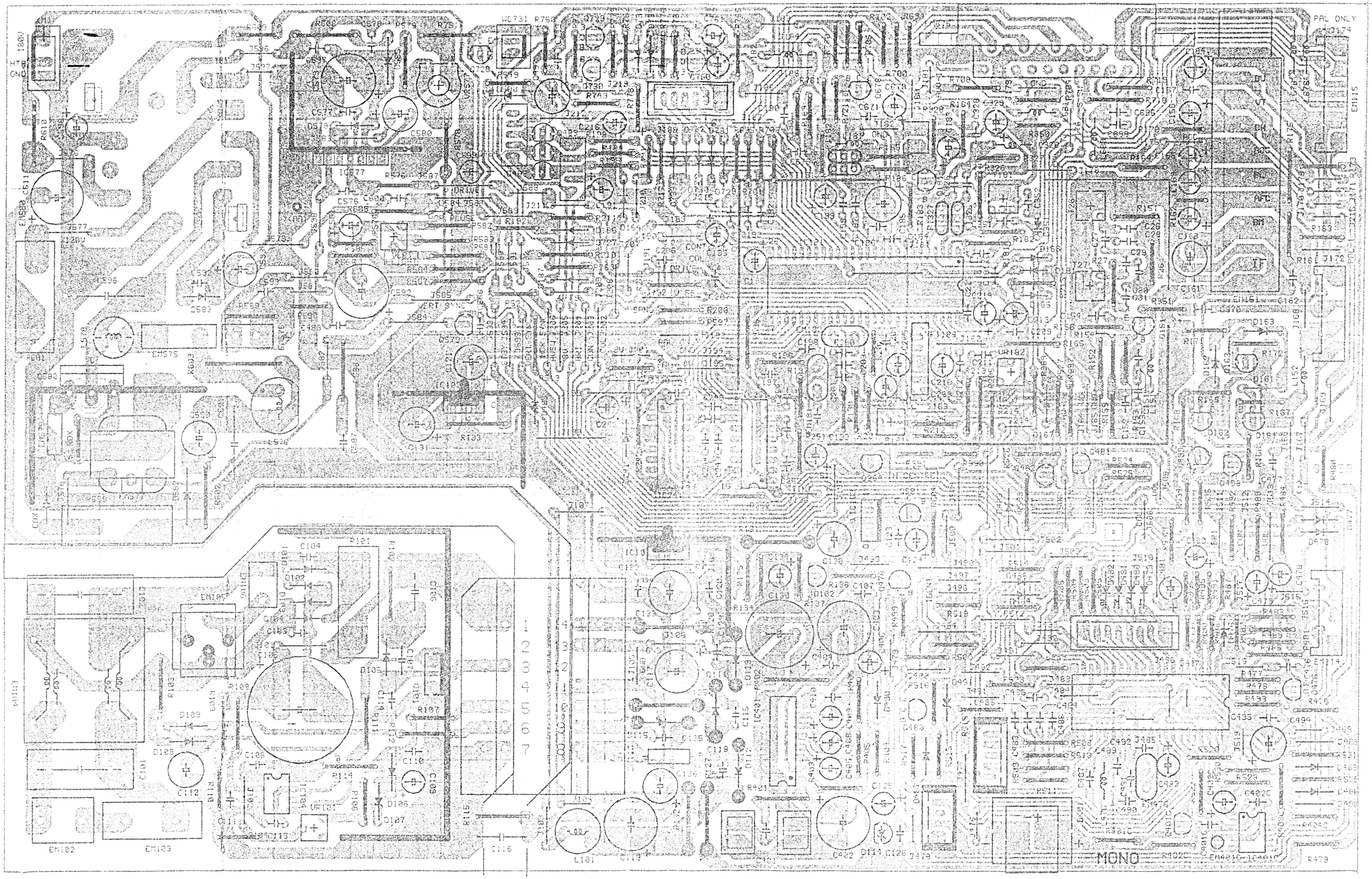
20''/21'' DRIVE CIRCUIT



DRIVE CIRCUIT

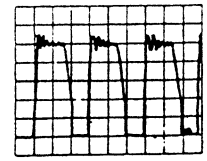


TELETEXT CIRCUIT



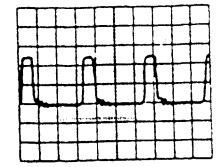
MAIN PCB

1) 5 usn/div 100 volt/div



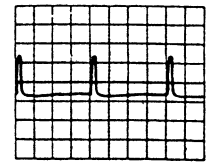
Collector of Q101

2) 20 usn/div 2volt/div



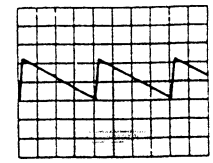
IC-476 pin 26

3) 5m sn/div 2volt/div



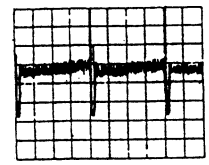
IC-476 pin 27

4) 5 msn/div 0,5 volt/div



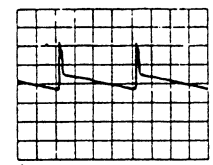
IC-181 pin 41

5) 5 msn/div 1 volt/div



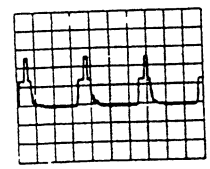
IC-577 pin 4

6) 5 msn/div 20 volt/div



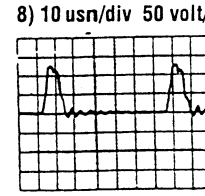
IC-577 pin 2

7) 20 usn/div 2 volt/div



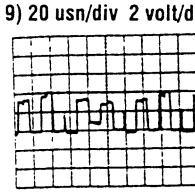
IC-181 pin 38

8) 10 usn/div 50 volt/div



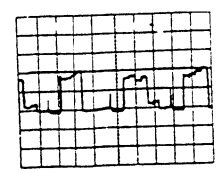
Cathode of D 584

9) 20 usn/div 2 volt/div



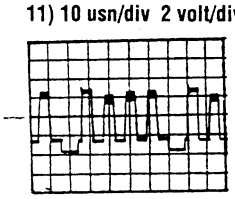
IC-181 pin 20

10) 20 usn/div 2 volt/div



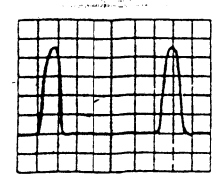
IC-181 pin 19

11) 10 usn/div 2 volt/div



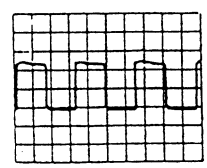
IC-181 pin 18

12) 10 usn/div 200 volt/div



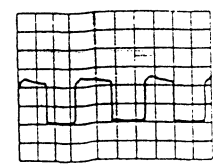
Collector of Q 580

13) 20 usn/div 0.5 volt/div



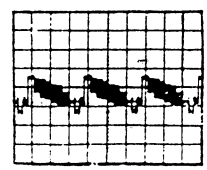
IC-181 pin 37

14) 20 usn/div 50 volt/div

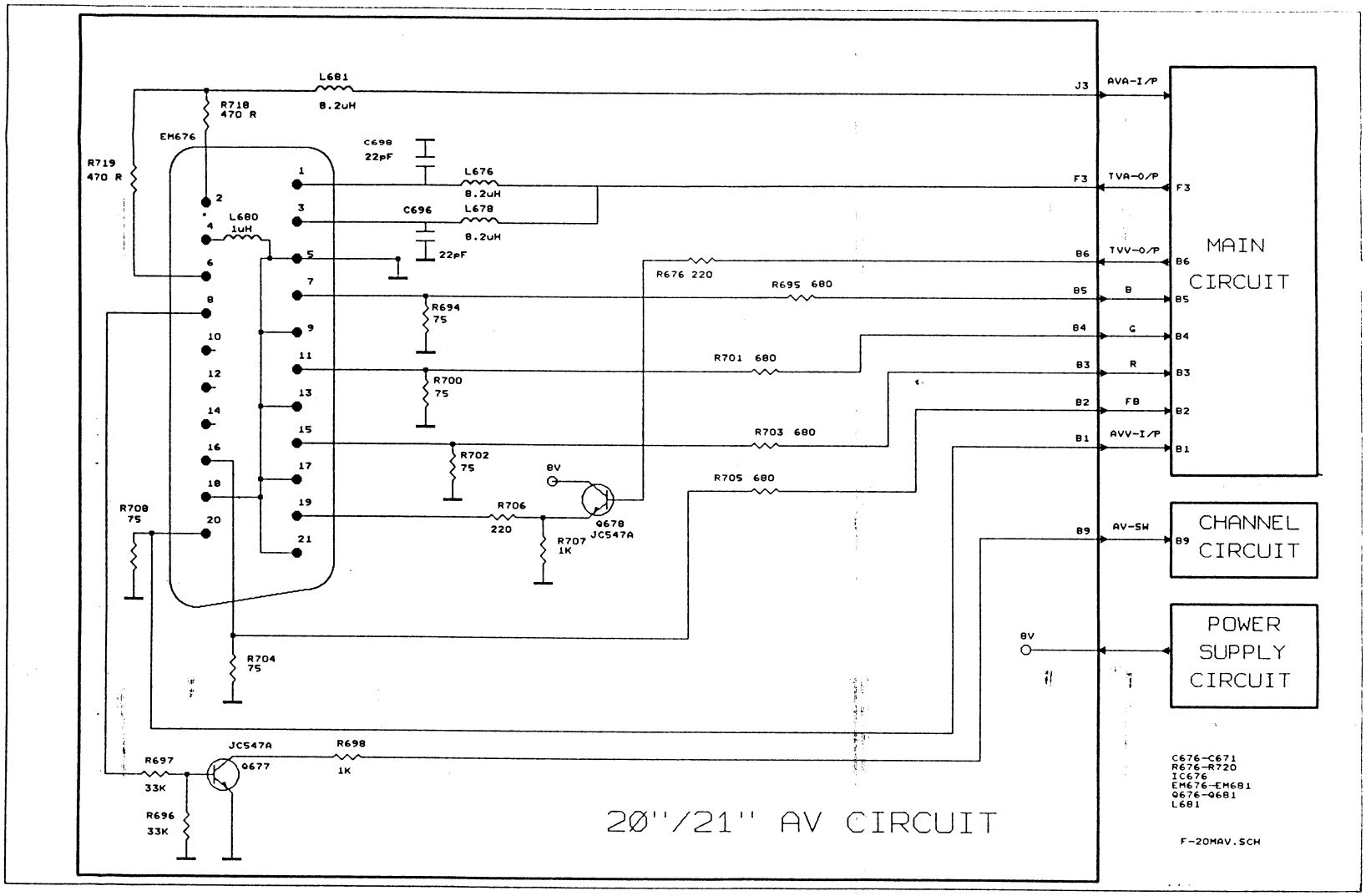


Collector of Q 581

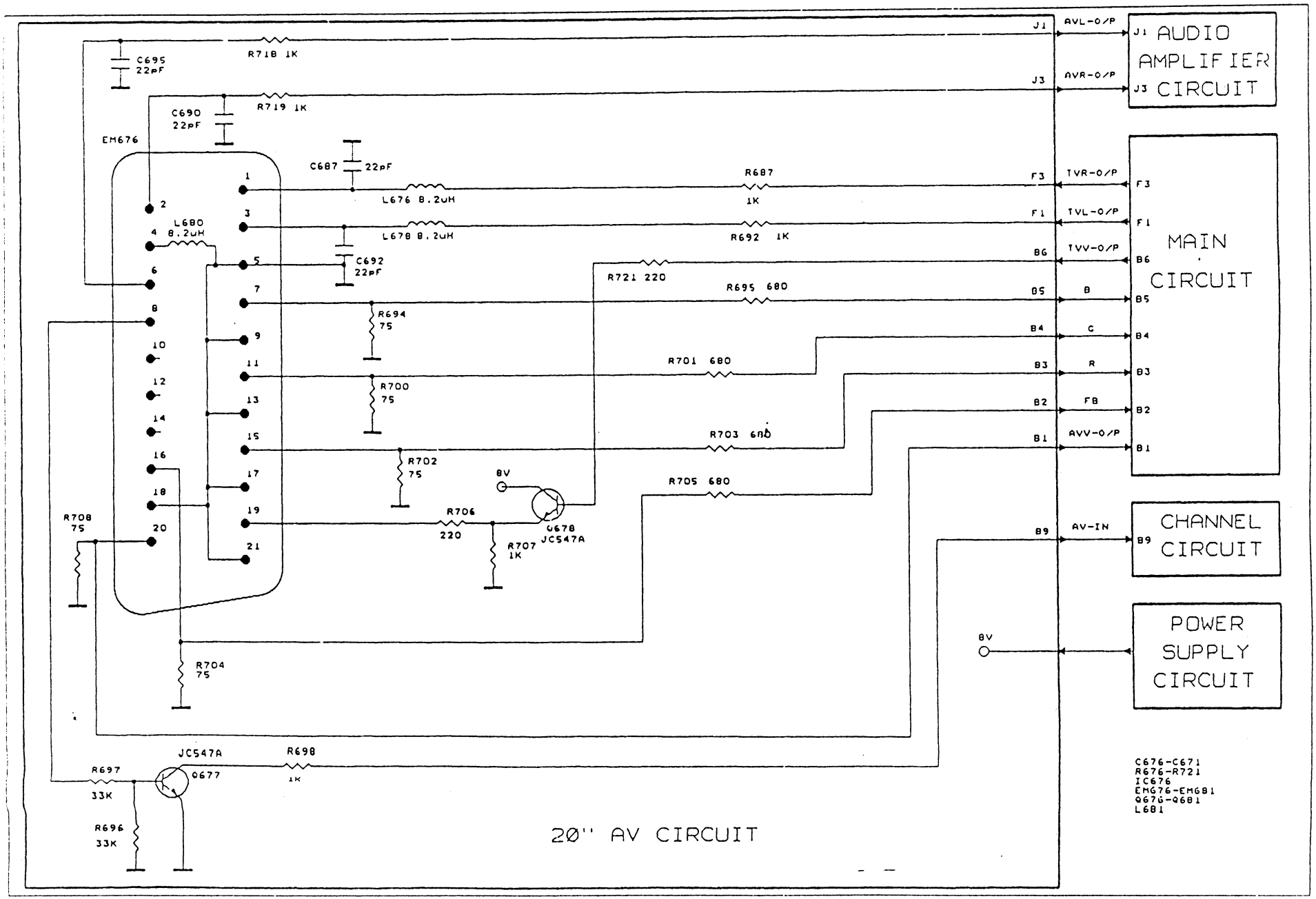
15) 20 usn/div 1 volt/div



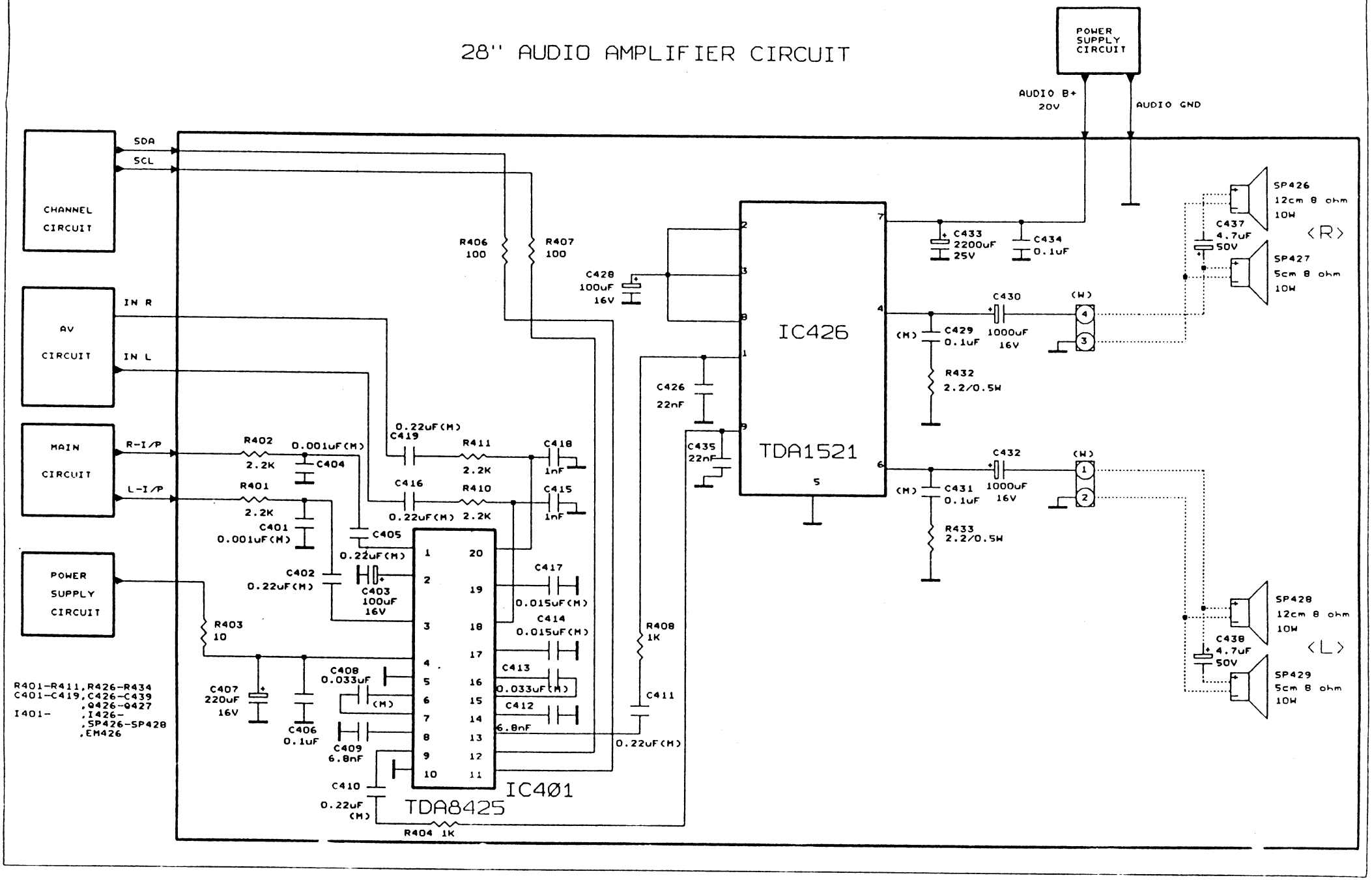
IC-181 pin 13


L681
8.2uH
R718
470 R
EM676
R719
470 R
C698
22pF
L676
8.2uH
C696
L678
8.2uH
22pF
L680
1uH
R676 220
R695 680
R694
75
R701 680
R700
75
R703 680
R702
75
8V
R705 680
R708
75
R706
220
Q678
JC547A
R707
1K
R704
75
JC547A
Q677
R698
1K
R697
33K
R696
33K
J3
AVA-I/P
F3
TVA-O/P
B6
TVV-O/P
B5
B
B4
G
B3
R
B2
FB
B1
AVV-I/P
B9
AV-SW
8V
MAIN
CIRCUIT
CHANNEL
CIRCUIT
POWER
SUPPLY
CIRCUIT
C676-C671
R676-R720
IC676
EM676-EM681
Q676-Q681
L681
20''/21'' AV CIRCUIT
F-20MAV.SCH

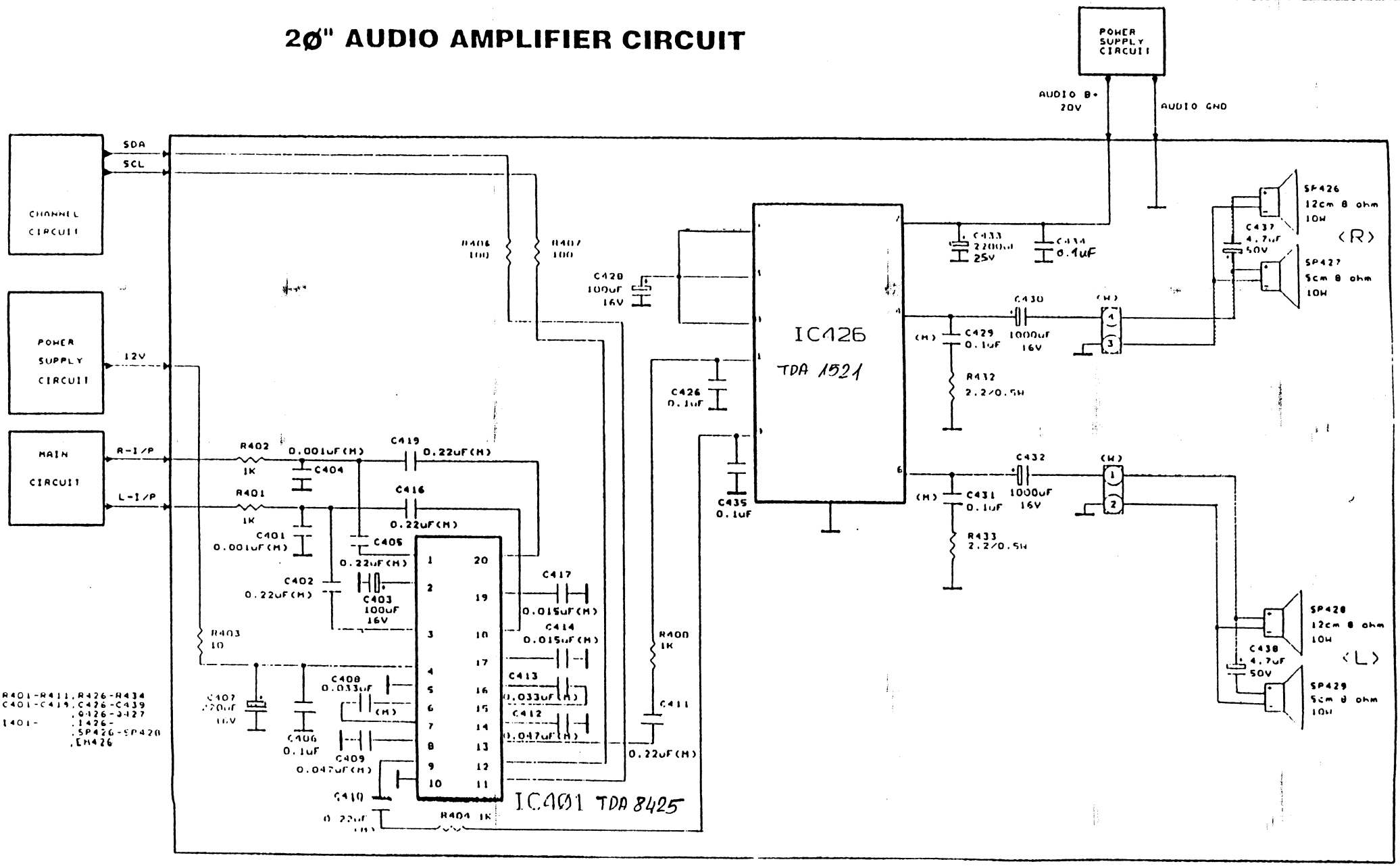
AV CIRCUIT

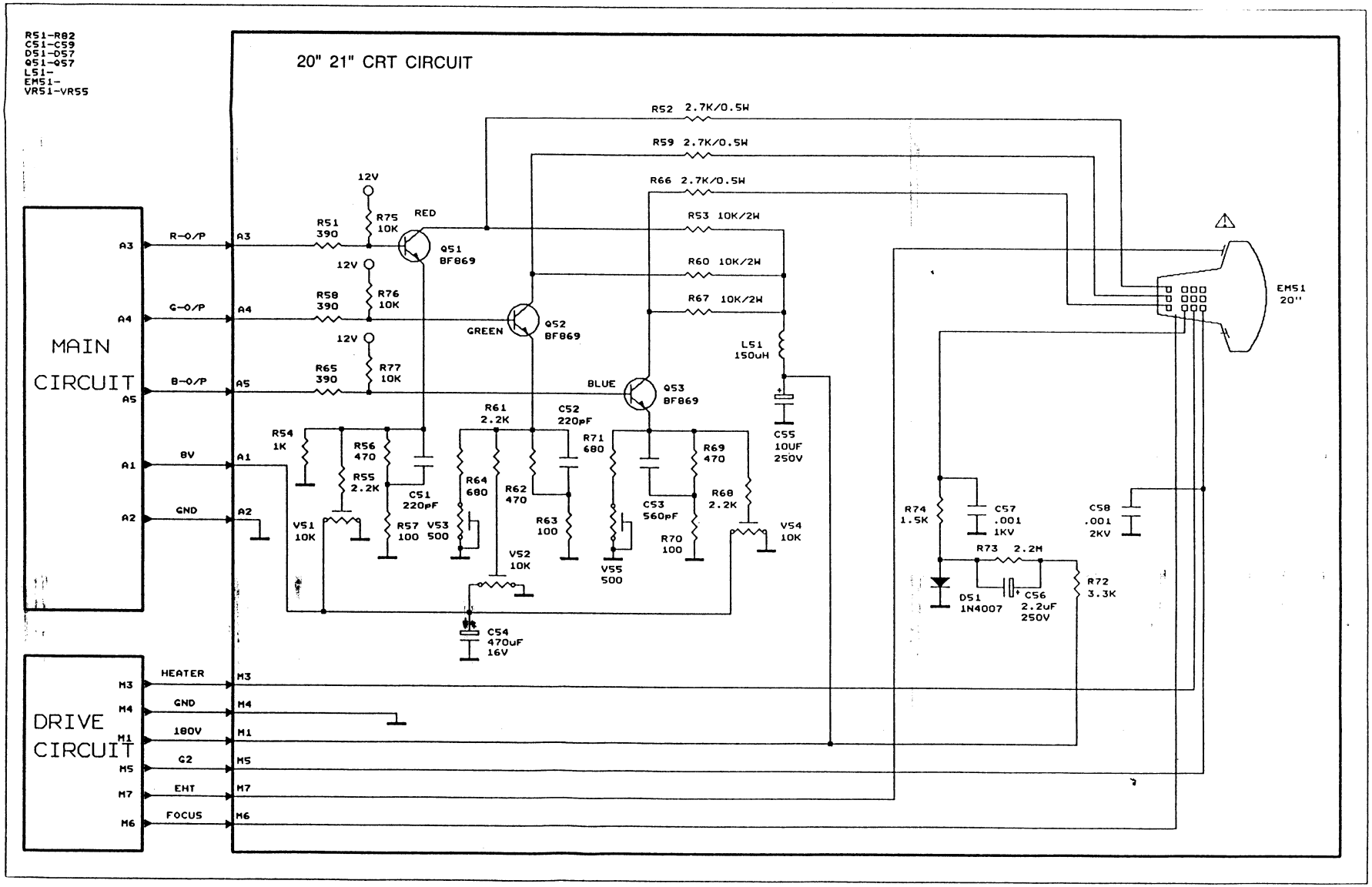

J1
AVL-O/P
J1 AUDIO AMPLIFIER
J3
AVR-O/P
J3 CIRCUIT
C695 22pF
R718 1K
C690 22pF
R719 1K
EM676
C687 22pF
L676 8.2uH
R687 1K
L680 8.2uH
L678 8.2uH
R692 1K
C692 22pF
R721 220
R695 680
R694 75
R701 680
R700 75
R703 680
R702 75
R705 680
8V
R706 220
Q678 JC547A
R707 1K
R708 75
R704 75
F3
TVR-O/P
F1
TVL-O/P
B6
TVV-O/P
B5
B
B4
G
B3
R
B2
FB
B1
AVV-O/P
MAIN CIRCUIT
B9
AV-IN
CHANNEL CIRCUIT
8V
POWER SUPPLY CIRCUIT
JC547A
Q677
R698 1K
R697 33K
R696 33K
C676-C671
R676-R721
IC676
EM676-EM681
Q676-Q681
L681
20'' AV CIRCUIT

28'' AUDIO AMPLIFIER CIRCUIT



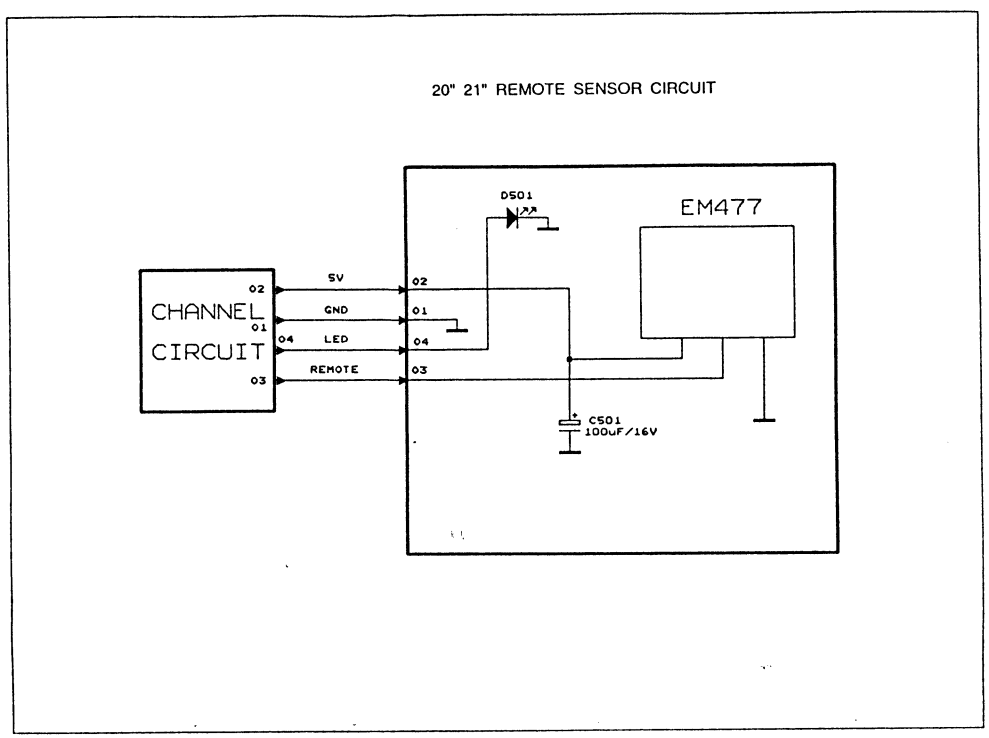
2Ø" AUDIO AMPLIFIER CIRCUIT



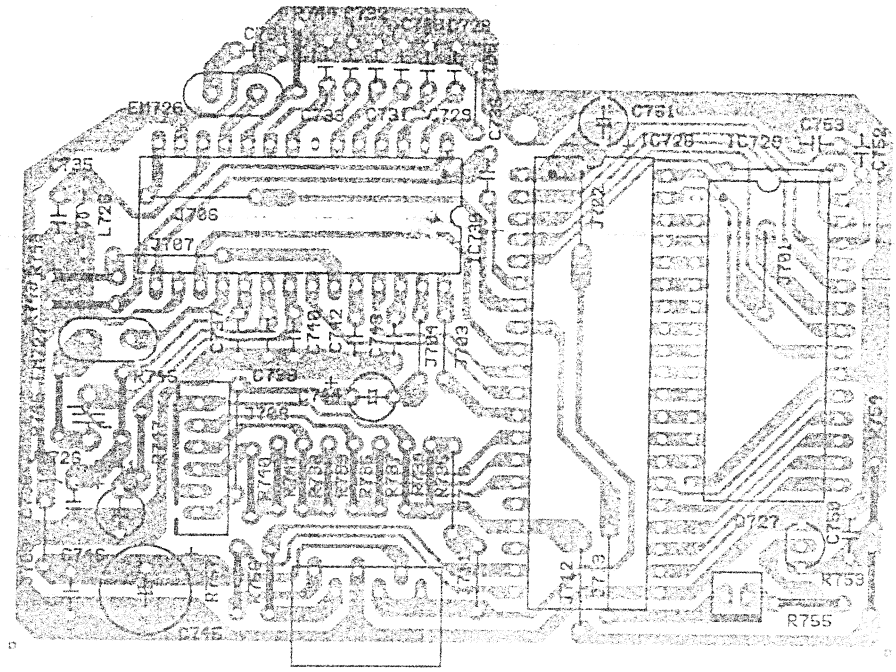

R51-R82
C51-C59
D51-D57
Q51-Q57
L51-
EM51-
VR51-VR55
20" 21" CRT CIRCUIT
MAIN CIRCUIT
DRIVE CIRCUIT
R-O/P
G-O/P
B-O/P
8V
GND
HEATER
GND
180V
G2
EHT
FOCUS
12V
R51 390
R58 390
R65 390
R75 10K
R76 10K
R77 10K
Q51 BF869
Q52 BF869
Q53 BF869
RED
GREEN
BLUE
R52 2.7K/0.5W
R59 2.7K/0.5W
R66 2.7K/0.5W
R53 10K/2W
R60 10K/2W
R67 10K/2W
L51 150uH
C55 10UF 250V
EM51 20"
R54 1K
R56 470
R55 2.2K
C51 220pF
R57 100
V51 10K
V53 500
R61 2.2K
R64 680
R62 470
R63 100
V52 10K
C52 220pF
R71 680
C53 560pF
V55 500
R69 470
R68 2.2K
R70 100
V54 10K
C54 470uF 16V
R74 1.5K
C57 .001 1KV
C58 .001 2KV
R73 2.2M
D51 1N4007
C56 2.2uF 250V
R72 3.3K

CRT CIRCUIT

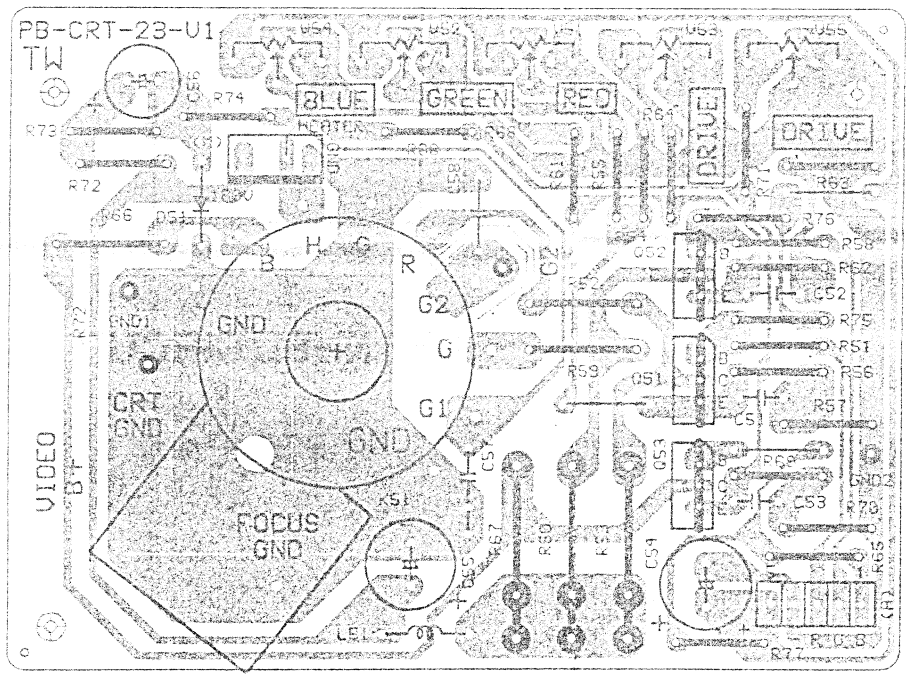
TUBE	C 595	R 610	TUBE SOCKET	LOSS COIL
14" EKRANAS	6.8 nF	0.22R (0.5W)	NARROW NECK	--------
20" EKRANAS	7.8 nF	0.47R (1W)	NARROW NECK	56 uH
20" SAMSUNG	9.1 nF	0.47R (1W)	NARROW NECK	56 uH
21"EKRANAS	8.2 nF	0.47R (1W)	NARROW NECK	150 uH
21"VIDEOCOLOR	7.8 nF	0.22R (0.5W)	NARROW NECK	150 uH



LED CIRCUIT



TELETEXT PCB



CRT PCB

Stückliste		H090
	Watson FA 5470	K7656
KIVI Art.Nr.	ET Bezeichnung	Verständnis Gruppe
371107	PTC (180M AC 290V)	001
786049	Horizontal End Trafo ZTR- 1142.1175	003
784527	Horizontal Treiber Trafo ETH 20Y20BY	003
784526	Übertrager ELF 18 D 615	003
785343	Wandlertrafo 002190120	003
782916	IR Fernbedienung	004
784517	Kippschalter (Service) 3fach 1x4Pin	007
784528	Netzschalter	007
804673	Bildröhre A51EBV13X01	009
84444	Transistor: 2 SC 1573 A	010
480524	Transistor: BUH 515 D	010
784499	Transistor: P 5 N 80	010
306601	Transistor: PH 2369	010
784523	IC: 24C02CB1	015
784520	IC: GM 76 C 88 AL-15	015
784524	IC: PCA 84 C 841 P/086	015
861512	IC: PCF 8581 P	015
784525	IC: PCF 8582 P	015
861123	IC: SAA 5231	015
804779	IC: SAA 5243 P/T	015
952940	IC: TDA 1521	015
443363	IC: TDA 4661	015
437350	IC: TDA 8362	015
210343	IC: TDA 8425	015
862442	IC: TDA 9820	015
476295	IC: TDA 9840	015
804588	Gleichrichter RS 206 L	023
230835	Quarz: 13,875 Mhz	026
861795	Bildrohrsockel	033
784519	Adapter Netzschalter	042
442874	Schließmechanik Bed.Teil Klappe	042
860774	IR Empfänger LTM 9160	043
784522	Modul Bedienteil	043
860775	Modul IR Empfänger	043
784521	Modul Netzschalter	043
804591	Modul Videotext	043
861713	Bedienteilklappe	053
626384	Gehäusefront	053
804590	Gehäuserückwand	053
862267	Halterahmen Bed.Teil	053
785074	HT Lautsprecher 16R / 5W	062
804805	TT Lautsprecher 8R / 7W	062
805110	Bed. Anl. Watson FA 5470	137
782914	Tuner (TECC 2989 VA 15 A)	143
785056	Entmagnetisierspule	200
784518	Netzkabel m. Drossel 2x500uH	203